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NOTICE OF ALLOWANCE AND FEE(S) DUE

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09/18/2009

LERNER GREENBERG STEMER LLP P O BOX 2480 HOLLYWOOD, FL 33022-2480 EXAMINER

AGHDAM, FRESHTEH N

ART UNIT PAPER NUMBER

2611 DATE MAILED: 09/18/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/048,119	06/10/2002	Reiner Gieck	1999P02445	1678

TITLE OF INVENTION: METHOD FOR OPTIMIZING THE TRANSMISSION OF DATA VIA LINES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	12/18/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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							(Depositor's name)
			<u> </u>				(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
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AGHDAM, F	RESHTEH N	2611	375-222000				
. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, alterna (2) the name of a sin registered attorney on 2 registered patent at listed, no name will be	the names of up to 3 registered patent attorneys agents OR, alternatively, the name of a single firm (having as a member a istered attorney or agent) and the names of up to egistered patent attorneys or agents. If no name is ed, no name will be printed.			
	less an assignee is ident h in 37 CFR 3.11. Comp	A TO BE PRINTED ON T ified below, no assignee oletion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	patent. If an assign n assignment. 'Y and STATE OR C	COUNT	RY)	cument has been filed for
lease check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	☑ Individual ☐ Co	orporati	on or other private grou	up entity Government
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n application. Confiden ubmitting the completed his form and/or suggesti	tiality is governed by 35 d application form to the jons for reducing this but	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is e depending upon the ind e Chief Information Offi	stimated to take 12 r ividual case. Any co cer. U.S. Patent and	ninutes mments Tradem	to complete, including s on the amount of time park Office, U.S. Depar	by the USPTO to process) gathering, preparing, and the you require to complete the the thickness of Commerce, P.O. or Patents, P.O. Box 1450,

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P O BOX 2480		ART UNIT	PAPER NUMBER		
HOLLYWOOD, F	L 33022-2480		2611		
			DATE MAILED: 09/18/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 600 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 600 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
Aleder of Aller alette	10/048,119	GIECK, REINER
Notice of Allowability	Examiner	Art Unit
	FRESHTEH N. AGHDAM	2611
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in thi or other appropriate communic IGHTS. This application is subj	s application. If not included ation will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>after final amendmen</u>	<u>t filed 8/21/2009</u> .	
2. ☑ The allowed claim(s) is/are <u>1-4 and 6-10</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	been received.	
3. ☐ Copies of the certified copies of the priority do	• • •	
International Bureau (PCT Rule 17.2(a)).	cuments have been received in	tilis flational stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.	
INFORMAL PATENT APPLICATION (PTO-152) which give	. ,	claration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus		
(a) ☐ including changes required by the Notice of Draftspers	- ·	PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		ha Office action of
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in t	The Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Inform	nal Patent Application
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3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mai 7. ⊠ Examiner's Am	l Date
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Sta	tement of Reasons for Allowance
of Biological Material	9.	

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark Weichselbaum on September 14, 2009. The application has been amended as follows:

In the claims:

Claim 1. A method of data transmission, comprising:

determining and storing at least one transmission method, with at least one transmission speed that represents a maximum data throughput rate, in a table of at least one transmission unit, saved in at least two transmission units, for different parameters of lines;

with at least one transmission unit, in the two transmission units, measuring and analyzing interference of a line connecting the two transmission units; with at least one transmission unit, in one of the two transmission units, selecting at least one transmission method based on the analysis;

with at least one transmission unit, measuring using the two transmission units to measure line parameters of [[a]] the line using the at least one transmission method; with at least one transmission unit, in at least one of the transmission units, comparing

the measured line parameters with the line parameters stored in the table; and with at least one transmission unit, in at least one of the transmission units, determining and selecting the transmission method having a transmission speed as a function of the comparison;

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wherein before the start of a data transmission, a measurement procedure is initiated, the procedure comprising:

determining which end of the line is a central end and which end of the line is a decentral end,

measuring interference of the line before <u>other ones of</u> the line parameters are measured at the central end,

selecting and reporting a transmission method to the decentral end,

sending a predetermined test signal by the central end, at two different frequencies, based on the line parameters stored in memory for the selected transmission method, and the line parameters of the test signal are measured by the decentral end, and a test signal is transmitted to the central end by the decentral end,

checking an attenuation of the test signal at the central end, and, as function of the measured attenuation, additional test signals at two different frequencies are transmitted to the decentral end, wherein the attenuation is one of the line parameters and

repeating the sending and checking until the line parameters stored in memory have been worked off.

Claim 2. The method according to claim I, wherein the line parameters are represented by the attenuation and running time of the line and by interference signals on the line include a running time of the line and interference signals on the line.

Claim 9. The method according to claim 8, wherein the alternate mark inversion method, high density bipolar order 3 encoding method, coded diphase method, or 2 binary 1 quaternary method is provided as the base band transmission method, and the QAM method with different step numbers and the phase difference method is provided as the carrier frequency transmission method. the baseband transmission methods include methods that are selected from the group consisting of an alternate mark inversion method, a high density bipolar order 3 encoding method, a coded diphase method, and a 2 binary 1 quaternary method; and the carrier frequency transmission method is selected from the group consisting of a quadrature amplitude modulation method with different step numbers and a phase difference method.

Allowable Subject Matter

Claims 1-4 and 6-10 are allowed. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach the limitations "determining which end of the line is a central end and which end of the line is a decentral end, checking an attenuation of the test signal at the central end, and, as function of the measured

attenuation, additional test signals at two different frequencies are transmitted to the decentral end, wherein the attenuation is one of the line parameters."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRESHTEH N. AGHDAM whose telephone number is (571)272-6037. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/048,119

Art Unit: 2611

Information regarding the status of an application may be obtained from the

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Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/F. N. A./

Examiner, Art Unit 2611

/Chieh M Fan/

Supervisory Patent Examiner, Art Unit 2611